

STEM Connect Logic Model

Strategies

Regional career work-based experiences supported by business community

Partnerships to provide enrichment activities for students and differentiated PD for teachers

Curriculum alignment for vertical and cross curriculum through PLCs

Increased access to content specific technology for science and math

Development of Leadership for supporting STEM instruction

PD in Inquiry-Based learning

Early diagnosis and intervention for college readiness assessment

Short Term Goals

Increase enrollment in
Algebra 1 for middle school
students and upper level math
and science

Increase percentage proficiency in Math and Science

Increase use of inquiry-based learning in lessons

Increase student interest and teacher awareness in STEM careers

Long Term Goals

Raise STEM interest and awareness

Increase student engagement and achievement in the STEM courses

Promote STEM educator effectiveness through professional development

Opportunities for 4th-9th grade STEM Teachers and Leaders

- Differentiated PD including PLC's, partnerships, inquirybased learning, and career-releated experiences
- Work-based learning experiences connected to emerging careers for this region
- Instructional support from our partners in your classroom
- STEM enrichment activities for students on-site and off-site
- Curriculum alignment opportunities within schools and across schools
- Increased access to content-specific technology through mobile devices
- Opportunities for instructional leaders to participate in STEM PD
- Early diagnosis and intervention system for college readiness in math

Expectations of Participants

- Participate in data collection and PD opportunities
- Provide a lead teacher (or teachers) as a contact, a STEM leadership team for your school (can be imbedded in existing team), and parent and student contacts to serve on STEM advisory council
- Integrate inquiry-based lessons, career connections, and other strategies gained from PD in your class
- Share Best Practices and challenges with teachers from your school
- Share Best Practices with teachers from other districts
- Post minutes from STEM meetings/PLC's on website
- Provide input on needed resources and support



- NC State University Science House
- Port Discover
- The College of the Albemarle
- NC Biotechnology Center